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Asp Gly Lys Trp Cys Leu Pro Gly Ser Ile Val Val Thr Ala Thr Asn 65 70 75 80

Phe Cys Pro Pro Asn Asn Ala Leu Pro Asn Asn Ala Gly Gly Trp Cys
85 90 95

Asn Pro Pro Gln Gln His Phe Asp Leu Ser Gln Pro Val Phe Gln Arg 100 105 110 Ile Ala Gln Tyr Arg Ala Gly Ile Val Pro Val Ala Tyr Arg Arg Val 115 120 Pro Cys Val Arg Arg Gly Gly Ile Arg Phe Thr Ile Asn Gly His Ser 130 135 Tyr Phe Asn Leu Val Leu Ile Thr Asn Val Gly Gly Ala Gly Asp Val 145 150 His Ser Ala Met Val Lys Gly Ser Arg Thr Gly Trp Gln Ala Met Ser 170 Arg Asn Trp Gly Gln Asn Trp Gln Ser Asn Ser Tyr Leu Asn Gly Gln 180 185 Ser Leu Ser Phe Lys Val Thr Thr Ser Asp Gly Gln Thr Ile Val Ser 195 200 205 Asn Asn Xaa Ala Asn Ala Gly Trp Ser Phe Gly Gln Thr Phe Thr Gly 210 215 220 Ala His Val Arg 225 <210> 3 <211> 222 <212> PRT <213> Oryza sativa <220> <221> misc_feature <222> (14)..(15) <223> Xaa can be any naturally occurring amino acid <220> <221> misc_feature <222> (19)..(20) <223> Xaa can be any naturally occurring amino acid <220> <221> misc_feature <222> (58)..(58) <223> Xaa can be any naturally occurring amino acid

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Asp Gln Gly Leu Ser Cys Gly Ala Cys Xaa Glu Leu Met Cys Val Asn 50 55 60

Asp Pro Gln Trp Cys Ile Ala Gly Arg Ser Ile Val Val Thr Ala Thr 65 70 75 80

Asn Phe Cys Pro Pro Gly Gly Ala Cys Asp Pro Pro Asn His His Phe 85 90 95

Asp Leu Ser Gln Pro Ile Tyr Glu Lys Ile Ala Leu Tyr Lys Ser Gly
100 105 110

Ile Ile Pro Val Met Tyr Arg Arg Val Arg Cys Lys Arg Ser Gly Gly
115 120 125

Ile Arg Phe Thr Ile Asn Gly His Ser Tyr Phe Asn Leu Val Leu Val 130 135 140

Thr Asn Val Gly Gly Ala Gly Asp Val His Ser Val Ser Met Lys Gly 145 150 155 160

Ser Arg Thr Lys Trp Gln Leu Met Ser Arg Asn Trp Gly Gln Asn Trp 165 170 175

Gln Ser Asn Ser Tyr Leu Asn Gly Gln Ser Leu Ser Phe Val Val Thr 180 185 190

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25

20

35 40 45

Asn Asp Gly Ala Met Cys Gly Ala Cys Tyr Thr Ile Thr Cys Asp Thr 50 60

Ser Gln Thr Lys Trp Cys Lys Pro Gly Gly Asn Ser Ile Thr Ile Thr 65 70 75 80

Ala Thr Asn Leu Cys Xaa Pro Asn Trp Ala Leu Pro Ser Asn Ser Gly 85 90 95

Gly Trp Cys Asn Pro Pro Leu Xaa His Phe Asp Met Ser Gln Pro Ala 100 105 110

Trp Glu Asn Ile Ala Val Tyr Gln Ala Gly Ile Val Pro Val Asn Tyr 115 120 125

Lys Arg Val Pro Xaa Gln Arg Ser Gly Gly Ile Arg Phe Ala Ile Ser 130 135 140

Gly His Asp Tyr Phe Glu Leu Val Thr Val Thr Asn Val Gly Gly Ser 145 150 155 160

Gly Val Val Ala Gln Met Ser Ile Lys Gly Ser Asn Thr Gly Trp Met 165 170 175

Ala Met Ser Arg Asn Trp Gly Ala Asn Trp Gln Ser Asn Ala Tyr Leu 180 185 190

Ala Gly Gln Ser Leu Ser Phe Ile Val Gln Leu Asp Asp Gly Arg Lys 195 200 205

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Asp Ala Ser Gly Thr Met Gly Gly Ala Cys Gly Tyr Gly Asn Leu His 20 25 30

Ser Gln Gly Tyr Gly Leu Gln Thr Ala Ala Leu Ser Thr Ala Leu Phe 35 40 45

Asn Ser Gly Gln Lys Cys Gly Ala Cys Phe Glu Leu Thr Cys Glu Asp 50 55 60

Asp Pro Glu Trp Cys Ile Pro Gly Ser Ile Ile Val Arg Thr Asn Leu 65 70 75 80

Ala Asn Phe Ala Leu Ala Asn Asp Asn Gly Gly Trp Cys Asn Pro Pro 85 90 95

Leu Lys His Phe Asp Leu Ala Glu Pro Ala Phe Leu Gln Ile Ala Gln
100 105 110

Tyr Arg Ala Gly Ile Val Pro Val Ala Phe Arg Arg Val Pro Cys Glu 115 120 125

Lys Gly Gly Gly Ile Arg Phe Thr Ile Asn Gly Asn Pro Tyr Phe Asp 130 135 140

Leu Val Leu Ile Thr Asn Val Gly Gly Ala Gly Asp Ile Arg Ala Val 145 150 155 160

Ser Leu Lys Gly Ser Lys Thr Asp Gln Trp Gln Ser Met Ser Arg Asn 165 170 175

Trp Gly Gln Asn Trp Gln Ser Asn Thr Tyr Leu Arg Gly Gln Ser Leu 180 185 190

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Asp Ala Ser Gly Thr Met Gly Gly Thr Cys Gly Tyr Gly Asn Leu Tyr 20 25 30

Ser Thr Gly Tyr Thr Asn Thr Ala Ala Leu Ser Thr Val Leu Phe Asn 35 40 45

Asp Gly Ala Ala Cys Arg Ser Cys Tyr Glu Leu Arg Cys Asp Asn Asp 50 60

Gly Gln Trp Cys Leu Pro Gly Ser Val Thr Val Thr Ala Thr Asn Leu 65 70 75 80

Cys Pro Pro Asn Tyr Ala Leu Pro Asn Asp Asp Gly Gly Trp Cys Asn 85 90 95

Pro Pro Arg Pro His Phe Asp Met Ala Glu Pro Ala Phe Leu Gln Ile 100 105 110

Gly Val Tyr Arg Ala Gly Ile Val Pro Val Ser Tyr Arg Arg Val Pro 115 120 125

Cys Val Lys Lys Gly Gly Ile Arg Phe Thr Ile Asn Gly His Ser Thr 130 135 140

Phe Asn Leu Val Leu Val Thr Asn Val Ala Gly Pro Gly Asp Val Gln 145 150 155 160

Ser Val Ser Ile Lys Gly Ser Ser Thr Gly Trp Gln Pro Met Ser Arg 165 170 175

Asn Trp Gly Gln Asn Trp Gln Ser Asn Ser Tyr Leu Asp Gly Gln Ser 180 185 190

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20 25 30

Ser Gln Gly Tyr Gly Thr Asn Thr Val Ala Leu Ser Thr Ala Leu Phe 35 40 45

Asn Asn Gly Leu Ser Cys Gly Ala Cys Phe Glu Met Thr Cys Thr Asn 50 55 60

Asp Pro Lys Trp Cys Leu Pro Gly Thr Ile Arg Val Thr Ala Thr Asn 65 70 75 80

Phe Cys Pro Pro Asn Phe Ala Leu Pro Asn Asp Asp Gly Gly Trp Cys 85 90 95

Asn Pro Pro Leu Gln His Phe Asp Met Ala Glu Pro Ala Phe Leu Gln
100 105 110

Ile Ala Gln Tyr Arg Ala Gly Ile Val Pro Val Ser Phe Arg Arg Val 115 120 Pro Cys Met Lys Lys Gly Gly Val Arg Phe Thr Ile Asn Gly His Ser 130 135 Tyr Phe Asn Leu Val Leu Ile Thr Asn Val Gly Gly Ala Gly Asp Val 145 150 His Ser Val Ser Ile Lys Gly Ser Arg Thr Gly Trp Gln Ser Met Ser 165 170 Arg Asn Trp Gly Gln Asn Trp Gln Ser Asn Asn Tyr Leu Asn Gly Gln 185 Gly Leu Ser Phe Gln Val Thr Leu Ser Asp Gly Arg Thr Leu Thr Ala 195 200 205 Tyr Asn Leu Val Pro Ser Asn Trp Gln Phe Gly Gln Thr Tyr Glu Gly 210 215 220 Pro Gln Phe 225 <210> 8 <211> 17 <212> PRT <213> Artificial <220> <223> Sense primer based on the N-terminal amino acid sequence from the cucumber S1 expansin <400> 8 Gly Ala Tyr Thr Ala Tyr Gly Gly Asn Gly Gly Asn Thr Gly Gly Cys 5 10 15 Ala

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Gly Gly Gly Cys
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